

**AIR PERMIT BRIEFING SHEET  
AIR PERMITS DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Baton Rouge Calcined Coke Plant  
Agency Interest No.: 29884  
Oxbow Calcining LLC  
Baton Rouge, East Baton Rouge Parish, Louisiana**

**I. Background**

Oxbow Calcining LLC (Oxbow) owns and operates the Baton Rouge Calcined Coke Plant, a petroleum coke manufacturing facility located in Baton Rouge, Louisiana. The Baton Rouge Calcined Coke Plant was previously owned and operated by Great Lakes Carbon LLC (GLC). Oxbow purchased the facility on May 9, 2007 and subsequently received approval for the name and ownership change from the Department on August 8, 2007. The facility currently operates under permit no. 0840-00021-V1 issued on June 7, 2007.

This is the Part 70 operating permit renewal and minor modification for the facility.

**II. Origin**

A permit application and Emission Inventory Questionnaire were submitted by Oxbow Calcining LLC on February 12, 2009 requesting a Part 70 operating permit renewal and minor modification. Addendums to the permit application, dated December 4, 2009 and March 5, 2010, were also received.

**III. Description**

The Baton Rouge Calcined Coke Plant produces calcined coke by feeding petroleum coke (green coke) into one of four rotary kilns. The green coke is transported to the facility by railcar and/or trucks. Oversized green coke is crushed and screened until it is properly sized. Coke is stockpiled by grade until it can be introduced into a kiln. In the kiln, the coke is subjected to high temperatures whereby moisture and volatiles are removed. The high temperature of the kiln is sustained by the combustion of natural gas, volatiles, and coke in the presence of excess air. Upon exiting the kiln, the coke is cooled by water sprays in the kiln coolers. Coke is then directed by conveyor to de-dusting fluid application equipment, where fluid is applied as a fugitive dust inhibitor. The calcined coke is then conveyed to storage to await further processing in the finished product crushing and sizing facility and/or shipment by rail and/or tank.

Oxbow is incorporating the emission changes associated with an Authorization to Construct (ATC), issued May 1, 2008. The ATC authorized the enclosure of several transfer points associated within the Cooler Area Coke Transfer and Fugitives (FUG 003/EPN 22) and routing of the dust generated by these points to a dust collector for pollution control. These changes resulted in an overall decrease of particulate emissions at the facility.

The following changes are also being made in this renewal:

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- Updates to the kiln potential-to-emit emission estimates to include hydrochloric acid and hydrofluoric acid emissions based on recent data from stack tests conducted at another Oxbow facility with similar kilns;
- Replacement of a temporary diesel engine (an insignificant activity) with a new kiln startup auxiliary natural gas fired engine (EQT 048);
- Updates to the lead emissions from the four kilns (EQT 004 – 007) to reflect recent stack test results. Based on the recent stack test, Oxbow determined that the permitted lead emission rates did not accurately reflect the potential variability in lead concentration in the raw coke feed;
- Establishment of an alternate SO<sub>2</sub> monitoring approach to the continuous emissions monitoring requirements of LAC 33:III.1511. By letter from the Department, dated July 10, 1992, the facility was authorized to use an alternate monitoring approach; however, previous permits did not include a custom schedule for determining SO<sub>2</sub> emissions from the kilns; and
- Incorporation of existing but not previously included General Condition XVII and insignificant activity sources and the addition of the Diesel Kiln Auxiliary Engine (IA-50) to the facility's insignificant activities list. This activity was approved on February 5, 2010 as a case-by-case insignificant activity and is now being incorporated into the permit renewal.

Estimated emissions in tons per year are as follows:

| <b>Pollutant</b> | <b>Before</b> | <b>After</b> | <b>Change</b> |
|------------------|---------------|--------------|---------------|
| PM <sub>10</sub> | 283.50        | 275.85       | - 7.65        |
| TSP              | 892.61        | 876.19       | - 16.42       |
| SO <sub>2</sub>  | 21,050.80     | 21,050.80    | -             |
| NO <sub>x</sub>  | 1,234.80      | 1,234.80     | -             |
| CO               | 85.60         | 85.60        | -             |
| VOC              | 25.37         | 25.29        | - 0.08        |

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| <b>LAC 33:III Chapter 51 Toxic Air Pollutants (TAP)</b> |               |              |                |
|---|---------------|--------------|----------------|
| <b>VOC TAP</b>  | <b>Before</b> | <b>After</b> | <b>Change</b>  |
| Benzene   | -             | < 0.01       | + < 0.01       |
| bis(2-ethylhexyl)phthalate                              | 0.40          | 0.52         | + 0.12         |
| Dibutyl phthalate                                       | 0.40          | 0.36         | - 0.04         |
| Diethyl phthalate <sup>[1]</sup>                        | -             | -            | -              |
| Dimethyl phthalate                                      | 0.04          | 0.04         | -              |
| Ethylbenzene  | -             | < 0.01       | + < 0.01       |
| n-Hexane  | -             | < 0.01       | + < 0.01       |
| Naphthalene   | 0.04          | 0.02         | - 0.02         |
| Polycyclic Aromatic Hydrocarbons <sup>2</sup>           | 0.12          | 0.13         | + 0.01         |
| Phenol  | 1.24          | 1.30         | + 0.06         |
| Toluene   | -             | < 0.01       | + < 0.01       |
| Xylene (mixed isomers)                                  | -             | < 0.01       | + < 0.01       |
| <b>VOC TAP Total<sup>[1]</sup></b>                      | <b>2.24</b>   | <b>2.37</b>  | <b>+ 0.13</b>  |
| <b>Non-VOC TAP</b>                                      | <b>Before</b> | <b>After</b> | <b>Change</b>  |
| Copper (and compounds)                                  | 0.40          | 0.31         | - 0.09         |
| Hydrochloric acid                                       | -             | 70.08        | + 70.08        |
| Hydrogen fluoride                                       | -             | 3.28         | + 3.28         |
| Lead compounds  | 0.40          | 0.88         | + 0.48         |
| Nickel (and compounds)                                  | 8.40          | 8.56         | + 0.16         |
| Zinc (and compounds)                                    | 8.04          | 8.07         | + 0.03         |
| <b>Non-VOC TAP Total</b>                                | <b>17.24</b>  | <b>91.18</b> | <b>+ 73.94</b> |
| <b>TAP Total</b>  | <b>19.48</b>  | <b>93.55</b> | <b>+ 74.07</b> |
| <b>Other VOC Total</b>                                  | <b>23.13</b>  | <b>22.92</b> | <b>- 0.21</b>  |

[1] Diethyl phthalate is not a TAP and was incorrectly included in the previous permit. The compound has been removed from both the before and after TAP emissions from the facility.

[2] PAH was previously permitted as phanthrene

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**IV. Type of Review**

This permit was reviewed for compliance with 40 CFR 70 and the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) does not apply.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. The facility emits Class I and Class II TAPs for which the total facility-wide emissions exceed the minimum emission rate (MER). Maximum achievable control technology (MACT) for affected sources is determined to be no additional controls.

**V. Credible Evidence**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. Public Notice**

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 200X; and in the <local paper>, <local town>, on <date>, 200X. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

**VII. Effects on Ambient Air**

Emissions associated with the proposed modification were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

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**VIII. General Condition XVII Activities**

| <b>Work Activity</b>  | <b>Schedule</b> | <b>Emission Rates – tons</b> |                       |                       |           |            |
|---|-----------------|------------------------------|-----------------------|-----------------------|-----------|------------|
|   |                 | <b>PM<sub>10</sub></b>       | <b>SO<sub>2</sub></b> | <b>NO<sub>x</sub></b> | <b>CO</b> | <b>VOC</b> |
| Periodic removal and repair of refractory from the kilns  | Varies          | 0.02                         |                       |                       |           |            |
| Baghouse system maintenance, including filter changeout, screw conveyor & bucket elevator maintenance, ductwork & hopper system | Varies          | <0.01                        |                       |                       |           |            |
| Road cleaning   | 16 hrs/wk       | 2.08                         |                       |                       |           |            |
| Kiln startup and shutdown   | As needed       | 0.02                         | 1.25                  | 4.70                  | 0.02      |            |
| Emissions from fires during firefighter training  | 1 event/yr      | <0.01                        | <0.01                 | <0.01                 | <0.01     |            |
| Kiln Feed Scoop Backflow Emissions  | 300 events/yr   | < 0.01                       |                       |                       |           |            |

**IX. Insignificant Activities**

| <b>ID No.</b> | <b>Description</b>                         | <b>Citation</b>        |
|---------------|--|------------------------|
| IA-1          | (1) Used Lube Oil tank (500 gallons)       | LAC 33:III.501.B.5.A.3 |
| IA-2          | (2) Diesel Fuel tanks (2,000 gallons each) | LAC 33:III.501.B.5.A.3 |
| IA-3          | (4) Lube Oil tanks (500 gallons)           | LAC 33:III.501.B.5.A.3 |
| IA-20         | (1) Diesel Fuel Storage tank               | LAC 33:III.501.B.5.A.3 |
| IA-21, 23-27  | (6) Dust Inhibitor Storage Tanks # 1 – 6   | LAC 33:III.501.B.5.A.3 |
| IA-29         | (1) Dedusting Oil Storage Tank #5          | LAC 33:III.501.B.5.A.3 |
| IA-30         | (1) Cooling Additive Mixing Tank           | LAC 33:III.501.B.5.A.3 |
| IA-4          | (2) Dedusting Oil Storage Tanks            | LAC 33:III.501.B.5.D   |
| IA-5          | (4) Diesel-Fired Engines*                  | LAC33:III.501.B.5.D    |
| IA-34-41      | (8) 110-gallon Lube Oil Tanks              | LAC 33:III.501.B.A.3   |
| IA-42-43      | (2) 150-gallon Diesel Storage Tank         | LAC 33:III.501.B.A.3   |
| IA-44         | (1) 140-gallon Diesel Storage Tank         | LAC 33:III.501.B.A.3   |
| IA-45         | Laboratory Sampling                        | LAC 33:III.501.B.5.A.6 |

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| ID No.   | Description                             | Citation             |
|----------|---|----------------------|
| IA-46-47 | (2) Kiln Auxiliary Natural Gas Engines* | LAC 33:III.501.B.S.D |
| IA-50    | Diesel Kiln Auxiliary Engine*           | LAC 33:III.501.B.S.D |

- \* These items currently qualify as insignificant activities. Any replacement of these items by new engines that are affected sources under either NSPS IIII or JJJJ will require a permit modification and a removal of the sources from the insignificant activities list.

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**Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant**  
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**Baton Rouge East Baton Rouge Parish, Louisiana**

**Table 1: Applicable Louisiana and Federal Air Quality Requirements**

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant**

Agency Interest No.: 29884

**Oxbow Calcining LLC**

**Baton Rouge East Baton Rouge Parish, Louisiana**

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

| ID No.: | Description                                 | LAC 33:III Chapter |     |   |    |    | 40 CFR NSPS |      |    |     |     | 40 CFR<br>61 |    | 40 CFR<br>NESHAP |   | 40 CFR |     |     |     |   |   |   |   |    |     |      |      |    |    |
|---------|---|--------------------|-----|---|----|----|-------------|------|----|-----|-----|--------------|----|------------------|---|--------|-----|-----|-----|---|---|---|---|----|-----|------|------|----|----|
|         |   | 5                  | 509 | 9 | 11 | 13 | 15          | 2103 | 22 | 51* | 53* | K            | Ka | Kb               | D | Y      | 000 | UUU | III | A | L | M | A | LL | HHH | CCCC | ZZZZ | 52 | 64 |
| FUG 01  | 17: Coke Unloading and Fugitives            |                    |     |   | 1  |    |             |      |    |     |     |              |    |                  |   |        |     |     |     |   |   |   |   |    |     |      |      |    |    |
| FUG 02  | 18: Parking Lot and Paved Roads Fugitives   |                    |     |   | 1  |    |             |      |    |     |     |              |    |                  |   |        |     |     |     |   |   |   |   |    |     |      |      |    |    |
| FUG 03  | 22: Cooler Area Coke Transfer and Fugitives |                    |     |   | 1  |    |             |      |    |     |     |              |    |                  |   |        |     |     |     |   |   |   |   |    |     |      |      |    |    |
| FUG 04  | 28: Coke Storage and Handling Fugitives     |                    |     |   | 1  |    |             |      |    |     |     |              |    |                  |   |        |     |     |     |   |   |   |   |    |     |      |      |    |    |

\* The regulations indicated above are State Only regulations.

- ▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

**KEY TO MATRIX**

- |       |   |
|-------|---|
| 1     | The regulations have applicable requirements that apply to this particular emission source.   |
| 2     | The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.   |
| 3     | The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date. |
| Blank | The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.  |
| Blank | The regulations clearly do not apply to this type of emission source.   |

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**Baton Rouge East Baton Rouge Parish, Louisiana**

**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

| ID No:                              | Requirement  | Notes   |
|-------------------------------------|--|---|
| UNF 01<br>BR Calcined Coke<br>Plant | Chemical Accident Prevention and Minimization of Consequences [LAC 33: III. Chapter 59]<br><br>Chemical Accident Prevention Provisions [ 40 CFR 68 ]<br><br>NESHAPS Subpart M – National Emission Standard for Asbestos [40 CFR 61.145]  | DOES NOT APPLY. Does not meet the threshold quantity requirements of any regulated substance.<br><br>EXEMPT. Shall comply with the regulations under this Subpart if triggered.<br>Applies to owner or operator of a facility being demolished or renovated.    |
| EQT 01 – 04<br>Kilns 1 – 4          | NSPS 40 CFR 60 Subpart Y- Standards of Performance for Coal Preparation Plants [40 CFR 60.250 ]<br><br>NSPS 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants [40 CFR 60.671 ]<br><br>NSPS 40 CFR 60 Subpart UUU - Standards of Performance for Calciners and Dryers in Mineral Industries [40 CFR 60.741 ] | DOES NOT APPLY. Green petroleum coke does not meet the definition of coal.<br><br>DOES NOT APPLY. Green petroleum coke is not defined as a nonmetallic mineral.<br><br>DOES NOT APPLY. Green petroleum coke does not meet the definition of a mineral industry. |
|                                     | 40 CFR 61 Subpart L - National Emission Standards for Benzene Emissions from Coke By-Product Recovery Plants   | DOES NOT APPLY. A Coke By-Product Recovery Plant produces metallurgical coke from coal. Calcined coke produced from green petroleum coke does not meet the definition of a Coke By-Product Recovery Plant.  |

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

| ID No.   | Requirement   | Notes  |
|--|---|--|
| EQT 01 – 04<br>Kilns 1 – 4 (cont)              | 40 CFR 63 Subpart CCCCC - National Emission Standards for Hazardous Air Pollutants for Coke Ovens: Pushing, Quenching, and Battery Stacks | DOES NOT APPLY. Coke ovens produce metallurgical coke from coal. Calcined coke produced from green petroleum coke does not meet the definition of a coke oven under 40 CFR 63 Subpart CCCCC. |
| EQT 14<br>Unleaded<br>Gasoline Storage<br>Tank | Control of Emissions of Nitrogen Oxides<br>[LAC 33:III.2201]  | EXEMPT. Kilns and ovens used for drying, baking, cooking or calcining are exempt per LAC 33:III.2201.C.7.  |
| EQT 14<br>Unleaded<br>Gasoline Storage<br>Tank | Control of Emission of Organic Compounds<br>[LAC 33:III.2131.A]   | EXEMPT. Facilities with throughput <120,000 gallons per year are exempted from installing vapor recovery systems for displaced vapors.   |

The above table provides explanation for both the exemption status and non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

General Information

**AI ID:** 29884 Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant  
**Activity Number:** PER20090002  
**Permit Number:** 0840-00021-V2  
**AIR - Title V Regular Permit Renewal**

| Also Known As:                 | ID                 | Name  | User Group   | Start Date                               |
|--------------------------------|--------------------|---|--|--|
| 0840-00021                     | 54-0355135         | Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant   | CDS Number   | 08-05-2002                               |
| LAR000025585                   | LA0000183          | Federal Tax ID  | Federal Tax ID   | 11-20-1999                               |
| LPDES #                        | WP5403             | Oxbow Calcining LLC   | Hazardous Waste Notification                                 | 08-01-2007                               |
| LWDPS #                        |                    | LPDES Permit #  | LPDES Permit #   | 06-25-2003                               |
|                                |                    | LWDPS Permit #  | LWDPS Permit #   | 06-25-2003                               |
|                                |                    | Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant   | Multimedia   | 05-09-2007                               |
| 11724                          | GD-033-1825        | X-Ray Registration Number   | Radiation X-ray Registration Number                          | 08-22-2007                               |
| 1150                           | 35920              | Site ID #   | Solid Waste Facility No.                                     | 04-30-2001                               |
| 43042                          | 76169              | Reynolds Metals   | TEMPO Merge  | 08-20-2001                               |
| 70807GRTIK2200B                | 1416               | Reynolds Metals Co - Baton Rouge Calcined Coke Plant  | TEMPO Merge  | 07-31-2001                               |
| 17000420                       |                    | Reynolds Metals Co  | TEMPO Merge  | 12-21-2000                               |
|                                |                    | Reynolds Metals Co - Baton Rouge Calcining Plant  | TEMPO Merge  | 03-28-2004                               |
|                                |                    | TRI #   | Toxic Release Inventory                                      | 07-13-2004                               |
|                                |                    | UST Case History Case Number  | UST Case Number  | 11-21-1999                               |
|                                |                    | UST Facility ID (from UST legacy data)  | UST FID #  | 10-11-2002                               |
| <b>Physical Location:</b>      |                    | 2200 Brooklawn Dr<br>Baton Rouge, LA 70807  | <b>Main FAX:</b> 2253582723<br><b>Main Phone:</b> 2253582730 |  |
| <b>Mailing Address:</b>        |                    | PO Box 4448<br>Baton Rouge, LA 708214448  |  |  |
| <b>Location of Front Gate:</b> |                    | 30.580667 latitude, -91.238917 longitude, Coordinate Method: Lat.Long. - DMS, Coordinate Datum: NAD83 |  |  |
| <b>Related People:</b>         |                    | <b>Name</b>   | <b>Mailing Address</b>                                       | <b>Relationship</b>                      |
| Frank Baca                     | Frank Baca         | 16945 Northchase Dr Site 2200 Houston, TX 77060   |  | Air Permit Contact For                   |
| Vaughn Baroil                  | Vaughn Baroil      | PO Box 4448 Baton Rouge, LA 708214448   |  | Underground Storage Tank Contact for     |
| William Bishop                 | William Bishop     | PO Box 4448 Baton Rouge, LA 70821   |  | Radiation Contact For                    |
| William Bishop                 | William Bishop     | PO Box 4448 Baton Rouge, LA 70821   |  | Radiation Contact For                    |
| William Bishop                 | William Bishop     | PO Box 4448 Baton Rouge, LA 70821   |  | Responsible Official for                 |
| Paul Koenig                    | Paul Koenig        | PO Box 4448 Baton Rouge, LA 708214448   |  | Responsible Official for                 |
| David Postlethwait             | David Postlethwait | PO Box 4448 Baton Rouge, LA 708214448   |  | Emission Inventory Contact for           |
| David Postlethwait             | David Postlethwait | PO Box 4448 Baton Rouge, LA 708214448   |  | Emission Inventory Contact for           |
| David Postlethwait             | David Postlethwait | PO Box 4448 Baton Rouge, LA 708214448   |  | Water Billing Party for                  |
| David Postlethwait             | David Postlethwait | PO Box 4448 Baton Rouge, LA 708214448   |  | Water Billing Party for                  |
| David Postlethwait             | David Postlethwait | PO Box 4448 Baton Rouge, LA 708214448   |  | Radiation Registration Billing Party for |
|                                |                    | PO Box 4448 Baton Rouge, LA 708214448   |  | Radiation Registration Billing Party for |

General Information

AI ID: 29884 Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant

Activity Number: PER20090002

Permit Number: 0840-00021-V2

Air - Title V Regular Permit Renewal

| Related People:        | Name  | Mailing Address  | Phone (Type)                       | Relationship                             |
|------------------------|---|--|------------------------------------|--|
|                        | David Postlethwait                              | PO Box 4448 Baton Rouge, LA 708214448  | David.postlethwait@2253582730 (WP) | Haz. Waste Billing Party for             |
|                        | David Postlethwait                              | PO Box 4448 Baton Rouge, LA 708214448  | David.postlethwait@2253582730 (WP) | Haz. Waste Billing Party for             |
|                        | David Postlethwait                              | PO Box 4448 Baton Rouge, LA 708214448  | David.postlethwait@2253582730 (WP) | Solid Waste Billing Party for            |
|                        | David Postlethwait                              | PO Box 4448 Baton Rouge, LA 708214448  | David.postlethwait@2253582730 (WP) | Solid Waste Billing Party for            |
|                        | David Postlethwait                              | PO Box 4448 Baton Rouge, LA 708214448  | David.postlethwait@2253582730 (WP) | Emission Inventory Contact for           |
|                        | David Postlethwait                              | PO Box 4448 Baton Rouge, LA 708214448  | David.postlethwait@2253582730 (WP) | Emission Inventory Contact for           |
| Related Organizations: | Name  | Address  | Phone (Type)                       | Relationship                             |
|                        | Great Lakes Carbon LLC                          | PO Box 4448 Baton Rouge, LA 70821  | 2253582700 (WF)                    | Formerly owned                           |
|                        | Great Lakes Carbon LLC                          | PO Box 4448 Baton Rouge, LA 70821  | 2253582723 (WF)                    | Formerly owned                           |
|                        | Great Lakes Carbon LLC                          | PO Box 4448 Baton Rouge, LA 70821  | 2253582700 (WF)                    | Formerly operated                        |
|                        | Oxbow Calcining LLC                             | PO Box 4448 Baton Rouge, LA 708214448  | 2253582723 (WF)                    | Formerly operated                        |
|                        | Oxbow Calcining LLC                             | PO Box 4448 Baton Rouge, LA 708214448  | 2253582700 (WF)                    | Operates                                 |
|                        | Oxbow Calcining LLC                             | PO Box 4448 Baton Rouge, LA 708214448  | 2253582723 (WF)                    | Operates                                 |
|                        | Oxbow Calcining LLC                             | PO Box 4448 Baton Rouge, LA 708214448  | 2253582700 (WP)                    | Owes                                     |
|                        | Oxbow Calcining LLC                             | PO Box 4448 Baton Rouge, LA 708214448  | 2253582723 (WF)                    | Owes                                     |
|                        | Oxbow Calcining LLC                             | Attn: Baton Rouge Plant West Palm Beach, FL 33401<br>c/o Corporation Service Co. Baton Rouge, LA 70802 | calcdininvvoices@2253582723 (WF)   | Emission Inventory Billing Party         |
|                        | Oxbow Calcining LLC                             | Attn: Baton Rouge Plant West Palm Beach, FL 33401  | calcdininvvoices@2253582700 (WP)   | Agent of Service for                     |
|                        | Oxbow Calcining LLC                             | Attn: Baton Rouge Plant West Palm Beach, FL 33401  | calcdininvvoices@2253582723 (WF)   | Air Billing Party for                    |
|                        | Oxbow Calcining LLC                             | Attn: Baton Rouge Plant West Palm Beach, FL 33401  | calcdininvvoices@2253582700 (WP)   | Radiation Registration Billing Party for |
|                        | Oxbow Calcining LLC                             |  | calcdininvvoices@2253582723 (WF)   | Accident Prevention Billing Party for    |
| NAIC Codes:            | 3241, Petroleum and Coal Products Manufacturing |  |                                    |  |

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Ms. Tommie Mlsam, Permit Support Services Division, at (225) 219-3259 or email your changes to facupdata@la.gov.

**INVENTORIES**

AI ID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant  
 Activity Number: PER20090002  
 Permit Number: 0840-00021-V2  
 Air - Title V Regular Permit Renewal

**Subject Item Inventory:**

| ID                                     | Description  | Tank Volume     | Max. Operating Rate | Normal Operating Rate             | Contents   | Operating Time |
|--|--|-----------------|---------------------|-----------------------------------|------------|----------------|
| <b>Baton Rouge Calcined Coke Plant</b> |  |                 |                     |                                   |            |                |
| EQT 0004                               | 1 - No. 1 Kiln - Coke Calciner   | 350400 tons/yr  | 40 tons/hr          | Coke                              | 8760 hr/yr |                |
| EQT 0005                               | 2 - No. 2 Kiln - Coke Calciner   | 350400 tons/yr  | 40 tons/hr          | Coke                              | 8760 hr/yr |                |
| EQT 0006                               | 3 - No. 3 Kiln - Coke Calciner   | 350400 tons/yr  | 40 tons/hr          | Coke                              | 8760 hr/yr |                |
| EQT 0007                               | 4 - No. 4 Kiln - Coke Calciner   | 350400 tons/yr  | 40 tons/hr          | Coke                              | 8760 hr/yr |                |
| EQT 0008                               | 8 - Coke Sizing Facility   | 876000 tons/yr  | 85 tons/hr          | Coke                              | 8760 hr/yr |                |
| EQT 0009                               | 12 - No. 1 Coke Storage Tank   | 1.58 MM tons/yr | 180 tons/hr         | Coke                              | 8760 hr/yr |                |
| EQT 0010                               | 13 - No. 2 Coke Storage Tank   | 1.58 MM tons/yr | 180 tons/hr         | Coke                              | 8760 hr/yr |                |
| EQT 0011                               | 14 - No. 1 Coke Load-Out Tank  | 1.75 MM tons/yr | 200 tons/hr         | Coke                              | 8760 hr/yr |                |
| EQT 0012                               | 15 - Coke Storage Silo 3 and Sizing Coke Handling and Transfer Equipment | 876000 tons/yr  | 85 tons/hr          | Coke                              | 8760 hr/yr |                |
| EQT 0013                               | 16 - Cooler - Kilns 1, 2, 3, and 4                                       | 1.05 MM tons/yr | 120 tons/hr         | Coke                              | 8760 hr/yr |                |
| EQT 0014                               | 19 - Unleaded Gasoline Storage Tank                                      | 507 gallons     | 24326 gallons/yr    | Unleaded gasoline                 | 8760 hr/yr |                |
| EQT 0032                               | 48 - Natural Gas Kiln Auxiliary Engine                                   | 45 horsepower   | 45 horsepower       | natural gas fired (0.36 MMBTU/hr) | 2400 hr/yr |                |
| FUG 0001                               | 17 - Coke Unloading and Fugitives  | 1.4 MM tons/yr  | 3840 tons/day       | Coke                              | 8760 hr/yr |                |
| FUG 0002                               | 18 - Parking Lot and Paved Road Fugitives                                | 120 tons/hr     | 120 tons/hr         | Coke                              | 8760 hr/yr |                |
| FUG 0003                               | 22 - Cooler Area Coke Transfer and Fugitives                             |                 |                     |                                   |            |                |
| FUG 0004                               | 28 - Coke Storage and Handling Fugitives                                 |                 |                     |                                   |            |                |

**Stack Information:**

| ID                                     | Description  | Velocity (ft/sec) | Flow Rate (cubic ft/min-actual) | Diameter (feet) | Discharge Area (square feet) | Height (feet) | Temperature (°F) |
|--|--|-------------------|---------------------------------|-----------------|------------------------------|---------------|------------------|
| <b>Baton Rouge Calcined Coke Plant</b> |  |                   |                                 |                 |                              |               |                  |
| EQT 0004                               | 1 - No. 1 Kiln - Coke Calciner   | 34.74             | 320064                          | 14              | 160                          | 1588          |                  |
| EQT 0005                               | 2 - No. 2 Kiln - Coke Calciner   | 34.74             | 320064                          | 14              | 160                          | 1588          |                  |
| EQT 0006                               | 3 - No. 3 Kiln - Coke Calciner   | 34.74             | 320064                          | 14              | 160                          | 1588          |                  |
| EQT 0007                               | 4 - No. 4 Kiln - Coke Calciner   | 34.74             | 320064                          | 14              | 160                          | 1588          |                  |
| EQT 0008                               | 8 - Coke Sizing Facility   | 41                | 12000                           | 2.5             | 32                           | 150           |                  |
| EQT 0009                               | 12 - No. 1 Coke Storage Tank   | 58                | 6000                            | 1.5             | 63                           | 200           |                  |
| EQT 0010                               | 13 - No. 2 Coke Storage Tank   | 58                | 1800                            | 83              | 82                           | 200           |                  |
| EQT 0011                               | 14 - No. 1 Coke Load-Out Tank  | 63                | 6500                            | 1.5             | 62                           | 200           |                  |
| EQT 0012                               | 15 - Coke Storage Silo 3 and Sizing Coke Handling and Transfer Equipment | 43                | 4000                            | 1.4             | 49                           | 100           |                  |
| EQT 0013                               | 16 - Cooler - Kilns 1, 2, 3, and 4                                       | 39                | 92000                           | 7               | 50                           | 362           |                  |
| EQT 0014                               | 19 - Unleaded Gasoline Storage Tank                                      |                   |                                 |                 | 4.8                          |               |                  |

Relationships:

INVENTORIES

AI ID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant  
 Activity Number: PER20090002  
 Permit Number: 0840-00021-V2  
 Air - Title V Regular Permit Renewal

**Subject Item Groups:**

| ID       | Group Type                | Group Description                                 |
|----------|---------------------------|---|
| CRG 0001 | Common Requirements Group | PM/TSP CTRL - Baghouses                           |
| UNF 0001 | Unit or Facility Wide     | Entire Facility - Baton Rouge Calcined Coke Plant |

**Group Membership:**

| ID       | Description  | Member of Groups |
|----------|--|------------------|
| EQT 0008 | 8 - Coke Sizing Facility   | CRG0000000001    |
| EQT 0009 | 12 - No. 1 Coke Storage Tank   | CRG0000000001    |
| EQT 0010 | 13 - No. 2 Coke Storage Tank   | CRG0000000001    |
| EQT 0011 | 14 - No. 1 Coke Load-Out Tank  | CRG0000000001    |
| EQT 0012 | 15 - Coke Storage Silo 3 and Sizing Coke Handling and Transfer Equipment | CRG0000000001    |
| EQT 0013 | 16 - Cooler - Kilns 1, 2, 3, and 4                                       | CRG0000000001    |

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

**Annual Maintenance Fee:**

| Fee Number | Air Contaminant Source                        | Multiplier | Units Of Measure |
|------------|---|------------|------------------|
| 0770       | 0770 Petroleum Coke Catching (Rated Capacity) | 700        | M ton/yr         |

**SIC Codes:**

|      |                                  |          |
|------|----------------------------------|----------|
| 2999 | Petroleum and coal products, nec | AI 29884 |
| 2999 | Petroleum and coal products, nec | UNF 001  |

## EMISSION RATES FOR CRITERIA POLLUTANTS

**ANID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant**

Activity Number: PER20090002

Document Number: 08400031 V2

PUBLICATIONS RECEIVED 1000

| CO                                     |           | NOx       |           | PM10      |           | SO2       |           | VOC       |           |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Subject Item                           | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year |
| <b>Baton Rouge Calcined Coke Plant</b> |           |           |           |           |           |           |           |           |           |
| EQT 0004                               | 4.89      | 6.24      | 21.41     | 70.48     | 77.68     | 308.73    | 14.46     | 15.05     | 63.34     |
| <sub>1</sub>                           | EQT 0005  | 4.89      | 6.24      | 21.41     | 70.49     | 308.73    | 14.46     | 15.05     | 63.34     |
| <sub>2</sub>                           | EQT 0006  | 4.89      | 6.24      | 21.41     | 70.49     | 308.73    | 14.46     | 15.05     | 63.34     |
| <sub>3</sub>                           | EQT 0007  | 4.89      | 6.24      | 21.41     | 70.49     | 308.73    | 14.46     | 15.05     | 63.34     |
| <sub>4</sub>                           | EQT 0008  |           |           |           |           |           | 0.12      | 0.18      | 0.54      |
| <sub>6</sub>                           | EQT 0009  |           |           |           |           |           | 0.26      | 0.39      | 1.14      |
| <sub>12</sub>                          | EQT 0010  |           |           |           |           |           | 0.28      | 0.39      | 1.14      |
| <sub>13</sub>                          | EQT 0011  |           |           |           |           |           | 0.29      | 0.43      | 1.26      |
| <sub>14</sub>                          | EQT 0012  |           |           |           |           |           | 0.73      | 0.86      | 3.22      |
| <sub>15</sub>                          | EQT 0013  |           |           |           |           |           | 0.05      | 0.08      | 0.20      |
| <sub>16</sub>                          | EQT 0014  |           |           |           |           |           |           |           | 0.04      |
| <sub>19</sub>                          | EQT 0032  | 0.11      | 0.14      | 0.14      | 1.36      | 1.63      | <0.01     | <0.01     | <0.01     |
| <sub>46</sub>                          | FUG 0001  |           |           |           |           |           | 0.76      | 1.06      | 3.34      |
| <sub>17</sub>                          | FUG 0002  |           |           |           |           |           | 0.02      | 0.09      | 0.10      |
| <sub>18</sub>                          | FUG 0003  |           |           |           |           |           | 2.00      | 3.00      | 8.75      |
| <sub>22</sub>                          | FUG 0004  |           |           |           |           |           | 0.89      | 1.03      | 3.01      |

Note: Emulation rates in bold are from alternate scenarios and are not included in permitted total units unless otherwise noted in a footnote.

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant

Activity Number: PER20090002

Permit Number: 0840-00021-V2

Air - Title V Regular Permit Renewal

| Emission Pt.  | Pollutant                         | Avg lb/hr | Max lb/hr | Tons/Year |
|---------------|-----------------------------------|-----------|-----------|-----------|
| EQT 0004<br>1 | Copper (and compounds)            | 0.018     | 0.020     | 0.08      |
|               | Dibutyl phthalate                 | 0.020     | 0.020     | 0.09      |
|               | Dimethyl phthalate                | 0.003     | 0.004     | 0.010     |
|               | Hydrochloric acid                 | 4.000     | 12.000    | 17.52     |
|               | Hydrofluoric acid                 | 0.190     | 0.230     | 0.82      |
|               | Lead compounds                    | 0.050     | 0.060     | 0.22      |
|               | Naphthalene                       | 0.001     | 0.001     | <0.01     |
|               | Nickel (and compounds)            | 0.489     | 0.557     | 2.14      |
|               | Phenol                            | 0.070     | 0.100     | 0.32      |
|               | Polynuclear Aromatic Hydrocarbons | 0.007     | 0.009     | 0.03      |
|               | Total suspended particulate       | 42.50     | 42.50     | 186.20    |
|               | Zinc (and compounds)              | 0.460     | 0.820     | 2.02      |
| EQT 0005<br>2 | bis(2-ethylhexyl)phthalate        | 0.030     | 0.040     | 0.13      |
|               | Copper (and compounds)            | 0.018     | 0.020     | 0.08      |
|               | Dibutyl phthalate                 | 0.020     | 0.020     | 0.09      |
|               | Dimethyl phthalate                | 0.003     | 0.004     | 0.010     |
|               | Hydrochloric acid                 | 4.000     | 12.000    | 17.52     |
|               | Hydrofluoric acid                 | 0.190     | 0.230     | 0.82      |
|               | Lead compounds                    | 0.050     | 0.060     | 0.22      |
|               | Naphthalene                       | 0.001     | 0.001     | <0.01     |
|               | Nickel (and compounds)            | 0.489     | 0.557     | 2.14      |
|               | Phenol                            | 0.070     | 0.100     | 0.32      |
|               | Polynuclear Aromatic Hydrocarbons | 0.007     | 0.009     | 0.03      |
|               | Total suspended particulate       | 42.50     | 42.50     | 186.20    |
| EQT 0006<br>3 | Zinc (and compounds)              | 0.460     | 0.820     | 2.02      |
|               | bis(2-ethylhexyl)phthalate        | 0.030     | 0.040     | 0.13      |
|               | Copper (and compounds)            | 0.018     | 0.020     | 0.08      |
|               | Dibutyl phthalate                 | 0.020     | 0.020     | 0.09      |
|               | Dimethyl phthalate                | 0.003     | 0.004     | 0.010     |
|               | Hydrochloric acid                 | 4.000     | 12.000    | 17.52     |
|               | Hydrofluoric acid                 | 0.190     | 0.230     | 0.82      |
| EQT 0007<br>4 | Lead compounds                    | 0.050     | 0.060     | 0.22      |
|               | Naphthalene                       | 0.001     | 0.001     | <0.01     |

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant

Activity Number: PER20090002

Permit Number: 0840-00021-V2

Air - Title V Regular Permit Renewal

| Emission Pt.   | Pollutant                         | Avg lb/hr | Max lb/hr | Tons/Year |
|----------------|-----------------------------------|-----------|-----------|-----------|
| EOT 0006<br>3  | Nickel (and compounds)            | 0.489     | 0.557     | 2.14      |
|                | Phenol                            | 0.070     | 0.100     | 0.32      |
|                | Polynuclear Aromatic Hydrocarbons | 0.007     | 0.009     | 0.03      |
|                | Total suspended particulate       | 42.50     | 42.50     | 186.20    |
|                | Zinc (and compounds)              | 0.460     | 0.820     | 2.02      |
|                | bis(2-ethylhexyl)phthalate        | 0.030     | 0.040     | 0.13      |
| EOT 0007<br>4  | Copper (and compounds)            | 0.018     | 0.020     | 0.08      |
|                | Dibutyl phthalate                 | 0.020     | 0.020     | 0.09      |
|                | Dimethyl phthalate                | 0.003     | 0.004     | 0.010     |
|                | Hydrochloric acid                 | 4.000     | 12.000    | 17.52     |
|                | Hydrofluoric acid                 | 0.190     | 0.230     | 0.82      |
|                | Lead compounds                    | 0.050     | 0.060     | 0.22      |
|                | Naphthalene                       | 0.001     | 0.001     | <0.01     |
|                | Nickel (and compounds)            | 0.489     | 0.557     | 2.14      |
|                | Phenol                            | 0.070     | 0.100     | 0.32      |
|                | Polynuclear Aromatic Hydrocarbons | 0.007     | 0.009     | 0.03      |
|                | Total suspended particulate       | 42.50     | 42.50     | 186.20    |
|                | Zinc (and compounds)              | 0.460     | 0.820     | 2.02      |
|                | bis(2-ethylhexyl)phthalate        | 0.030     | 0.040     | 0.13      |
| EQT 0008<br>8  | Total suspended particulate       | 1.53      | 2.30      | 6.70      |
| EQT 0009<br>12 | Total suspended particulate       | 3.24      | 4.86      | 14.19     |
| EQT 0010<br>13 | Total suspended particulate       | 3.24      | 4.86      | 14.19     |
| EQT 0011<br>14 | Total suspended particulate       | 3.60      | 5.40      | 15.77     |
| EQT 0012<br>15 | Total suspended particulate       | 9.180     | 10.800    | 40.21     |
| EQT 0013<br>16 | Total suspended particulate       | 0.56      | 0.71      | 2.45      |
| EOT 0014<br>19 | Benzene                           | 0.001     |           | <0.01     |
|                | Ethyl benzene                     | <0.001    |           | <0.01     |
|                | Naphthalene                       | <0.001    |           | <0.01     |
|                | Toluene                           | <0.001    |           | <0.01     |
|                | Xylene (mixed isomers)            | <0.001    |           | <0.01     |
|                | n-Hexane                          | 0.001     |           | <0.01     |
| FUG 0001<br>17 | Total suspended particulate       | 2.20      | 3.12      | 9.62      |
| FUG 0002<br>18 | Total suspended particulate       | 0.11      | 0.45      | 0.50      |

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant

Activity Number: PER20090002

Permit Number: 0840-00021-V2

Air - Title V Regular Permit Renewal

| Emission Pt.                | Pollutant                         | Avg lb/hr | Max lb/hr | Tons/Year |
|-----------------------------|-----------------------------------|-----------|-----------|-----------|
| FUG 0003<br>22              | Total suspended particulate       | 4.30      | 6.45      | 18.84     |
| FUG 0004<br>28              | Total suspended particulate       | 2.04      | 3.05      | 8.92      |
| UNF 0001<br>Entire Facility | Benzene                           |           |           | <0.01     |
|                             | Copper (and compounds)            |           |           | 0.31      |
|                             | Dibutyl phthalate                 |           |           | 0.36      |
|                             | Dimethyl phthalate                |           |           | 0.04      |
|                             | Ethyl benzene                     |           |           | <0.01     |
|                             | Hydrochloric acid                 |           |           | 70.08     |
|                             | Hydrofluoric acid                 |           |           | 3.28      |
|                             | Lead compounds                    |           |           | 0.88      |
|                             | Naphthalene                       |           |           | 0.02      |
|                             | Nickel (and compounds)            |           |           | 8.56      |
|                             | Phenol                            |           |           | 1.30      |
|                             | Polynuclear Aromatic Hydrocarbons |           |           | 0.13      |
|                             | Toluene                           |           |           | <0.01     |
|                             | Total suspended particulate       |           |           | 876.19    |
|                             | Xylene (mixed isomers)            |           |           | <0.01     |
|                             | Zinc (and compounds)              |           |           | 8.07      |
|                             | bis(2-ethylhexyl)phthalate        |           |           | 0.52      |
|                             | n-Hexane                          |           |           | <0.01     |

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

**Emission Rates Notes:**

|          |                                   |           |  |
|----------|-----------------------------------|-----------|--|
| EQT 0004 | Polynuclear Aromatic Hydrocarbons | Avg lb/hr | PAHs consist of Phenanthrene. Which Months: All Year |
| EQT 0004 | Polynuclear Aromatic Hydrocarbons | Max lb/hr | PAHs consist of Phenanthrene. Which Months: All Year |
| EQT 0004 | Polynuclear Aromatic Hydrocarbons | Tons/Year | PAHs consist of Phenanthrene. Which Months: All Year |
| EQT 0005 | Polynuclear Aromatic Hydrocarbons | Avg lb/hr | PAHs consist of Phenanthrene. Which Months: All Year |
| EQT 0005 | Polynuclear Aromatic Hydrocarbons | Max lb/hr | PAHs consist of Phenanthrene. Which Months: All Year |
| EQT 0005 | Polynuclear Aromatic Hydrocarbons | Tons/Year | PAHs consist of Phenanthrene. Which Months: All Year |
| EQT 0006 | Polynuclear Aromatic              | Avg lb/hr | PAHs consist of Phenanthrene. Which Months: All Year |

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant

Activity Number: PER20090002

Permit Number: 0840-00021-V2

Air - Title V Regular Permit Renewal

|          |                                   |           |  |
|----------|-----------------------------------|-----------|--|
| EQT 0006 | Hydrocarbons                      |           |  |
| EQT 0006 | Polynuclear Aromatic Hydrocarbons | Max lb/hr | PAHs consist of Phenanthrene. Which Months: All Year |
| EQT 0006 | Polynuclear Aromatic Hydrocarbons | Tons/Year | PAHs consist of Phenanthrene. Which Months: All Year |
| EQT 0007 | Polynuclear Aromatic Hydrocarbons | Avg lb/hr | PAHs consist of Phenanthrene. Which Months: All Year |
| EQT 0007 | Polynuclear Aromatic Hydrocarbons | Max lb/hr | PAHs consist of Phenanthrene. Which Months: All Year |
| EQT 0007 | Polynuclear Aromatic Hydrocarbons | Tons/Year | PAHs consist of Phenanthrene. Which Months: All Year |
| UNF 0001 | Polynuclear Aromatic Hydrocarbons | Tons/Year | PAHs consist of Phenanthrene. Which Months: All Year |

**SPECIFIC REQUIREMENTS**

AI ID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant  
**Activity Number:** PER20090002  
**Permit Number:** 0840-00021-V2  
**Air - Title V Regular Permit Renewal**

**CRG 0001 PM/TSP CTRL - Baghouse****Group Members:** EQT 0008 EQT 0010 EQT 0011 EQT 0012 EQT 0013

- 1 [40 CFR 64.3(b)(3)] Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturers' specifications. [40 CFR 64.3(b)(3)]
- 2 [40 CFR 64.6(c)(1)] Visible emissions monitored by technically sound method daily. [40 CFR 64.6(c)(1)]
- 3 [40 CFR 64.6(c)(2)] Which Months: All Year Statistical Basis: None specified An excursion is defined as a missed daily opacity reading. An exceedance is defined as an opacity reading greater than 20% using Method 9 of 40 CFR 60, Appendix A. [40 CFR 64.6(c)(2)]
- 4 [40 CFR 64.6(c)(2)] Submit Notification: Submit to DEQ within 5 working days upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
- 5 [40 CFR 64.6(c)(4)] Visible emissions recordkeeping by electronic or hard copy daily. [40 CFR 64.6(c)(4)]
- 6 [40 CFR 64.7(a)] Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- 7 [40 CFR 64.7(b)] Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
- 8 [40 CFR 64.7(c)] Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
- 9 [40 CFR 64.7(d)(1)] Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
- 10 [40 CFR 64.7(e)] Submit written notification: Due to the Office of Environmental Compliance within 72 hours upon identifying a failure to achieve compliance with the opacity standard for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
- 11 [40 CFR 64.9(a)] Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]

**SPECIFIC REQUIREMENTS**

AI ID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant

Activity Number: PER20090002

Permit Number: 0B40-00021-V2

All - Title V Regular Permit Renewal

**CRG 0001 PM/TSP CTRL - Baghouses**

- 12 [40 CFR 64.9(b)(1)] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 13 [40 CFR 64.9(b)(1)] Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- 14 [40 CFR 64.9(b)(1)] Monitoring data recordkeeping by electronic or hard copy at the approved frequency. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 15 [LAC 33.III.501.C.6] Particulate matter (10 microns or less) >= 99 % removal efficiency from filter manufacturer's certification. Which Months: All Year Statistical Basis: None specified

**EQT 0004 1 - No. 1 Klin - Coke Calciner**

- 16 [LAC 33.III.110.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, equipment changes, or ash removal, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified Total suspended particulate <= 42.50 lb/hr. The rate of emission shall be the total of all emission points from the source. Which Months: All Year Statistical Basis: None specified Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: Six-minute average Sulfur dioxide <= 2000 ppm at standard conditions (1 atm, 68 degrees F.). Which Months: All Year Statistical Basis: Three-hour average Determine compliance with the appropriate emission limitation in LAC 33.III.1503.A through 1503.C using the methods listed in LAC 33.III.1503.D. Table 4 or any such equivalent method as may be approved by DEQ. Use these methods for initial compliance determinations and for any additional compliance determinations as requested by DEQ.
- 17 [LAC 33.III.1311.B] Sulfur Content: Collect samples of the calcined coke at least twice per day. Determine the sulfur content of each sample. Calculate calcined coke sulfur content on a 24-hour weighted average basis. Calcined coke sulfur content shall be used to determine the mass of sulfur entering the kiln.
- 18 [LAC 33.III.1311.C] Sulfur content of the uncalcined coke shall be obtained by dividing the sulfur content of the calcined coke by a factor of 0.90. Calculate uncalcined coke sulfur content on a 24-hour weighted average basis. Uncalcined coke sulfur content shall be used to determine the mass of sulfur entering the kiln.
- 19 [LAC 33.III.1503.C] Uncalcined Coke: Mass flow rate monitored by flow rate monitoring device hourly. Determine the three-hour averaged uncalkined coke mass flow rate. This value shall be used to determine the mass of sulfur entering and leaving the kiln. Which Months: All Year Statistical Basis: 3-hour block average
- 20 [LAC 33.III.1503.D.1]
- 21 [LAC 33.III.1511.C.3]
- 22 [LAC 33.III.1511.C.3]

**SPECIFIC REQUIREMENTS**

AI ID: 29884 - Oxbow Calcining LLC, Baton Rouge Calcined Coke Plant  
 Activity Number: PER20090002  
 Permit Number: 0840-00021-V2  
 Air - Title V Regular Permit Renewal

**EQT 0004 1 - No. 1 Kiln - Coke Calciner**

23 [LAC 33:III.1511.C.3]

Calcined Coke: Mass flow rate monitored by calculations hourly. Determine the three-hour averaged calcined coke mass flow rate by using the uncalcined coke mass flow rate and assuming an uncalcined coke to calcined coke conversion rate of 70%. The calcined coke mass flow rate shall be used to determine the mass of sulfur exiting the kiln.

Which Months: All Year Statistical Basis: 3-hour block average

24 [LAC 33:III.1511.C.3]

Mass of Sulfur Leaving the Kiln: Determine the amount of sulfur leaving the kiln using the following equation:

$$\text{Uncalcined coke mass flow rate (tons/hr)} * \text{Coke conversion rate (70\%)} * \text{Calcined coke sulfur content} * 2,000 \text{ lbs/ton}$$

The mass of sulfur leaving the kiln shall be used to determine sulfur dioxide emissions from the kiln.

Mass of Sulfur Dioxide (SO<sub>2</sub>): Assuming that all unrecovered sulfur is converted to sulfur dioxide in the kiln, determine hourly sulfur dioxide emissions (in lbs/hr) using the following equation:

$$(\text{Mass of sulfur entering the kiln} - \text{Mass of sulfur leaving the kiln}) * (\text{Molecular Weight of SO}_2 / \text{Molecular Weight of S}).$$

For reference:

Molecular weight of SO<sub>2</sub> = 64.1 lb/lbmol

Molecular weight of S = 32.065 lb/lbmol

The hourly SO<sub>2</sub> emissions shall be used to generate a 3-hour average SO<sub>2</sub> emission rate (in lb/hr). This 3-hour SO<sub>2</sub> emission rate shall be used to calculate the 3-hour average SO<sub>2</sub> concentration (in ppmv).

**SPECIFIC REQUIREMENTS**

AI ID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant  
**Activity Number:** PER20090002  
**Permit Number:** 0840-00021-V2  
**Air - Title V Regular Permit Renewal**

**EQT 0004\_1 - No. 1 Kiln - Coke Calciner**

26 [LAC 33.III.151.I.C.3]

SO<sub>2</sub> Concentration: Determine the 3-hour average SO<sub>2</sub> concentration (in ppmv) by using the following equation:SO<sub>2</sub> Concentration = Mass of SO<sub>2</sub> (lb/hr) \* CF

where,

Mass of SO<sub>2</sub> = 3-hour average SO<sub>2</sub> emissionsConversion Factor (CF) = (V<sub>s</sub> \* 1,000,000) / (Q<sub>s</sub> \* MW)

where,

V<sub>s</sub> = specific volume for air (358.3 scf/lb-mole)Q<sub>s</sub> = Standard flow rate for air = Q<sub>a</sub> \* (T<sub>s</sub>/T<sub>a</sub>) \* (P<sub>a</sub>/P<sub>s</sub>)Q<sub>a</sub> = Actual flow rate average during 2009 Stack Test (267,064 acf/min)T<sub>s</sub> = Standard Temperature (528 deg R)T<sub>a</sub> = Actual Temperature during 2009 Stack Test (1828 deg R)P<sub>a</sub> = Actual Pressure (1 atm)P<sub>s</sub> = Standard Pressure (1 atm)MW = Molecular weight of SO<sub>2</sub> (64.1 lb/lb mole)

27 [LAC 33.III.151.I.C.3]

Moisture Content: Determine moisture content on a weighted basis of uncalcined coke based on coke receipts. Moisture content shall be used to determine the mass of sulfur entering the kiln.

Mass of Sulfur Entering Kiln: Determine the amount of sulfur entering the kiln using the following equation:

Uncalcined coke mass flow rate (tons/hr) \* Uncalcined coke sulfur content \* (1-Moisture %) \* 2,000lbs/ton

29 [LAC 33.III.151.I.B.3]

Mass of sulfur entering the kiln shall be used to determine sulfur dioxide emissions from the equipment/operational data recordkeeping by electronic or hard copy hourly. Record all data used to calculate sulfur dioxide emissions from the kiln.

30 [LAC 33.III.151.I.E] Submit quarterly reports of three-hour excess emissions and reports of emergency conditions in accordance with LAC 33.33.I.Chapter 39.

31 [LAC 33.III.151.I.E] Submit report: Due annually, by the 31st of March, in accordance with LAC 33.III.918. Report data required to demonstrate compliance with the provisions of LAC 33.III.Chapter 15.

32 [LAC 33.III.151.I.E] Make all compliance data available to a representative of DEQ or the U.S. EPA on request.

33 [LAC 33.III.507.H.1.a] Opacity monitored by visual inspection/determination daily using a trained observer. Observer shall maintain certification by completing the semi-annual qualification procedure specified in Method 9.

34 [LAC 33.III.507.H.1.a] Which Months: All Year Statistical Basis: Single Readings

Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing.

**SPECIFIC REQUIREMENTS**

AI ID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant  
**Activity Number:** PER20090002  
**Permit Number:** 0840-00021-V2  
**Air - Title V Regular Permit Renewal**

**EQT 0004 1 - No. 1 Kiln - Coke Calciner**

35 [LAC 33:III.507.H.1.a]

Conduct a performance/emissions test: Due within five years, plus or minus 6 months, of when the previous performance test was performed. Since the four kilns listed in this permit are identical in nature, any two out of the four kilns can be tested to demonstrate compliance provided that the next five year performance test includes the two untested kilns. The stack test's purpose is to demonstrate compliance per 40 CFR 70.6(a)(3)(i)(B), with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 1 - Sample and velocity traverses for stationary sources, Method 2 - Determination of stack gas velocity and volumetric flow rate, Method 3 - Molecular Weight, Method 4 - Moisture content, Method 5F - Determination of nonsulfate particulate matter emissions from stationary sources, Method 6C - Determination of sulfur dioxide emissions from stationary sources, Method 7E - Determination of nitrogen oxides emissions from stationary sources, Method 10 - Determination of carbon monoxide emissions from stationary sources, Method 26A - Determination of hydrogen halide and halogen emissions from stationary sources isokinetic method, and Method 29 - Metals emissions from stationary sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. Opacity recordkeeping by manual logging upon measurement. If opacity by casual observation is less than 5%, the observer shall record no visible emissions. If opacity by casual observation is greater than 5% and less than 15%, the observer shall record the opacity of the worst stack. If opacity by casual observation is greater than 15%, the observer shall perform a full 40 CFR 60, Appendix A, Method 9 on the stack having the highest opacity. Keep records of opacity readings on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B. Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be no additional controls.

**EQT 0005 2 - No. 2 Kiln - Coke Calciner**

40 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, equipment changes, or ash removal, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified Total suspended particulate <= 42.50 lb/hr. The rate of emission shall be the total of all emission points from the source. Which Months: All Year Statistical Basis: None specified Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: Six-minute average Sulfur dioxide <= 2000 ppm at standard conditions (1 atm, 68 degrees F). Which Months: All Year Statistical Basis: Three-hour average

43 [LAC 33:III.1503.C]

**SPECIFIC REQUIREMENTS**

AI ID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant

Activity Number: PER20090002

Permit Number: 0840-00021-V2

Air - Title V Regular Permit Renewal

**EQT 0005 2 - No. 2 Kiln - Coke Calclner**

44 [LAC 33:III.1503.D.1]

Determine compliance with the appropriate emission limitation in LAC 33:III.1503.C using the methods listed in LAC 33:III.1503.D. Table 4 or any such equivalent method as may be approved by DEQ. Use these methods for initial compliance determinations and for any additional compliance determinations as requested by DEQ.

**Mass of Sulfur Leaving the Kiln:** Determine the amount of sulfur leaving the kiln using the following equation:

$$\text{Uncalcined coke mass flow rate (tons/hr)} * \text{Coke conversion rate (70\%)} * \text{Calcined coke sulfur content} * 2,000 \text{lbs/ton}$$

The mass of sulfur leaving the kiln shall be used to determine sulfur dioxide emissions from the kiln.

**Uncalcined Coke:** Mass flow rate monitored by flow rate monitoring device hourly. Determine the three-hour averaged uncalcined coke mass flow rate. This value shall be used to determine the mass of sulfur entering and leaving the kiln.

Which Months: All Year Statistical Basis: 3-hour block average

**Sulfur Content:** Collect samples of the calcined coke at least twice per day. Determine the sulfur content of each sample. Calculate calcined coke sulfur content on a 24-hour weighted average basis. Calcined coke sulfur content shall be used to determine the mass of sulfur leaving the kiln.

Sulfur content of the uncalcined coke shall be obtained by dividing the sulfur content of the calcined coke by a factor of 0.90. Calculate uncalcined coke sulfur content on a 24-hour weighted average basis. Uncalcined coke sulfur content shall be used to determine the mass of sulfur entering the kiln.

**Mass of Sulfur Dioxide (SO<sub>2</sub>):** Assuming that all unrecovered sulfur is converted to sulfur dioxide in the kiln, determine hourly sulfur dioxide emissions (in lbs/hr) using the following equation:

$$(\text{Mass of sulfur entering the kiln} - \text{Mass of sulfur leaving the kiln}) * (\text{Molecular Weight of SO}_2 / \text{Molecular Weight of S})$$

For reference:

Molecular weight of SO<sub>2</sub> = 64.1 lb/lbmol

Molecular weight of S = 32.065 lb/lbmol.

The hourly SO<sub>2</sub> emissions shall be used to generate a 3-hour average SO<sub>2</sub> emission rate (in lb/hr). This 3-hour SO<sub>2</sub> emission rate shall be used to calculate the 3-hour average SO<sub>2</sub> concentration (in ppmv).

**Calcined Coke:** Mass flow rate monitored by calculations hourly. Determine the three-hour averaged calcined coke mass flow rate by using the uncalcined coke mass flow rate and assuming an uncalcined coke to calcined coke conversion rate of 70%. The calcined coke mass flow rate shall be used to determine the mass of sulfur exiting the kiln.

Which Months: All Year Statistical Basis: 3-hour block average

**Moisture Content:** Determine moisture content on a weighted basis of uncalcined coke based on coke receipts. Moisture content shall be used to determine the mass of sulfur entering the kiln.

**SPECIFIC REQUIREMENTS**

AI ID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant  
 Activity Number: PER20090002  
 Permit Number: 0840-0002-1-V2  
 Air - Title V Regular Permit Renewal

**EQT 0005 2 - No. 2 Kiln - Coke Calciner**

51 [LAC 33.III.1511.C.3] SO2 Concentration: Determine the 3-hour average SO<sub>2</sub> concentration (in ppmv) by using the following equation:

$$\text{SO2 Concentration} = \text{Mass of SO2 (lb/hr)} * \text{CF}$$

where,

$$\begin{aligned} \text{Mass of SO2} &= 3\text{-hour average SO2 emissions} \\ \text{Conversion Factor (CF)} &= (V_s * 1,000,000) / (Q_s * M_w) \end{aligned}$$

where,

$$\begin{aligned} V_s &= \text{specific volume for air (358.3 scf/lb-mole)} \\ Q_s &= \text{Standard flow rate for air} = Q_a * (T_s/T_a) * (P_a/P_s) \\ Q_a &= \text{Actual flow rate average during 2009 Stack Test (267,064 acf/min)} \\ T_s &= \text{Standard Temperature (528 deg R)} \\ T_a &= \text{Actual Temperature during 2009 Stack Test (1828 deg R)} \\ P_a &= \text{Actual Pressure (1 atm)} \\ P_s &= \text{Standard Pressure (1 atm)} \\ M_w &= \text{Molecular weight of SO2 (64.1 lb/lb mole)} \end{aligned}$$

52 [LAC 33.III.1511.C.3] Mass of Sulfur Entering Kiln: Determine the amount of sulfur entering the kiln using the following equation:

$$\text{Uncalcined coke mass flow rate (tons/hr)} * \text{Uncalcined coke sulfur content} * (1-\text{Moisture \%}) * 2,000\text{lb/ton}$$

Mass of sulfur entering the kiln shall be used to determine sulfur dioxide emissions from the kiln. Equipment/operational data recordkeeping by electronic or hard copy hourly. Record all data used to calculate sulfur dioxide emissions from the kiln. Submit report: Due annually, by the 31st of March, in accordance with LAC 33.III.918. Report data required to demonstrate compliance with the provisions of LAC 33.III.Chapter 15. Submit quarterly reports of three-hour excess emissions and reports of emergency conditions in accordance with LAC 33.331.Chapter 39. Make all compliance data available to a representative of DEQ or the U.S. EPA on request. Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. Opacity recordkeeping by manual logging upon measurement. If opacity by casual observation is less than 5%, the observer shall record no visible emissions. If opacity by casual observation is greater than 5% and less than 15%, the observer shall record the opacity of the worst stack. If opacity by casual observation is greater than 15%, the observer shall perform a full 40 CFR 60, Appendix A, Method 9 on the stack having the highest opacity. Keep records of opacity readings on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

**SPECIFIC REQUIREMENTS**

AI ID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant  
**Activity Number:** PER20090002  
**Permit Number:** 0840-00021-V2  
**Air - Title V Regular Permit Renewal**

**EQT 0005 2 - No. 2 Kiln - Coke Calciner**

- 59 [LAC 33:III.507.H.1.a]  
 60 [LAC 33:III.507.H.1.a]

61 [LAC 33:III.507.H.1.a]

- 62 [LAC 33:III.5107.A.2]  
 63 [LAC 33:III.5109.A.1]

Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. Opacity monitored by visual inspection/determination daily using a trained observer. Observer shall maintain certification by completing the semi-annual qualification procedure specified in Method 9.

Which Months: All Year Statistical Basis: Single Readings

Conduct a performance/emissions test: Due within five years, plus or minus 6 months, of when the previous performance test was performed. Since the four kilns listed in this permit are identical in nature, any two out of the four kilns can be tested to demonstrate compliance provided that the next five year performance test includes the two untested kilns. The stack test's purpose is to demonstrate compliance per 40 CFR 70.6(a)(3)(i)(B), with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 1 - Sample and velocity traverses for stationary sources, Method 2 - Determination of stack gas velocity and volumetric flow rate, Method 3 - Molecular Weight, Method 4 - Moisture content, Method 5F - Determination of nonsulfate particulate matter emissions from stationary sources, Method 6C - Determination of sulfur dioxide emissions from stationary sources, Method 7E - Determination of nitrogen oxides emissions from stationary sources, Method 10 - Determination of carbon monoxide emissions from stationary sources, Method 26A - Determination of hydrogen halide and halogen emissions from stationary sources isokinetic method, and Method 29 - Metals emissions from stationary sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be no additional controls.

**EQT 0006 3 - No. 3 Kiln - Coke Calciner**

64 [LAC 33:III.1101.B]

65 [LAC 33:III.1311.B]

66 [LAC 33:III.1311.C]

67 [LAC 33:III.1503.C]

68 [LAC 33:III.1503.D.1]

Opacity <= 20 percent, except during the clearing of a fire box or building of a new fire, soot blowing or lancing, equipment changes, or ash removal, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified  
 Total suspended particulate <= 42.50 lb/hr. The rate of emission shall be the total of all emission points from the source.

Which Months: All Year Statistical Basis: None specified  
 Opacity <= 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average  
 Sulfur dioxide <= 2000 ppm at standard conditions (1 atm, 68 degrees F).

Which Months: All Year Statistical Basis: Three-hour average  
 Determine compliance with the appropriate emission limitation in LAC 33:III.1503.C using the methods listed in LAC 33:III.1503.D, Table 4 or any such equivalent method as may be approved by DEQ. Use these methods for initial compliance determinations and for any additional compliance determinations as requested by DEQ.

**SPECIFIC REQUIREMENTS**

AI ID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant  
**Activity Number:** PER20090002  
**Permit Number:** 0840-00021-V2  
**Air - Title V Regular Permit Renewal**

**EQT 0006 3 - No. 3 Kiln - Coke Calciner**

- 69 [LAC 33:III.1511.C.3] Mass of Sulfur Leaving the Kiln: Determine the amount of sulfur leaving the kiln using the following equation:  
**Uncalcined coke mass flow rate (tons/hr) \* Coke conversion rate (70%) \* Calcined coke sulfur content \* 2,000lbs/ton**
- The mass of sulfur leaving the kiln shall be used to determine sulfur dioxide emissions from the kiln.
- Sulfur Content: Collect samples of the calcined coke at least twice per day. Determine the sulfur content of each sample. Calculate calcined coke sulfur content on a 24-hour weighted average basis. Calcined coke sulfur content shall be used to determine the mass of sulfur leaving the kiln.
- Sulfur content of the uncalcined coke shall be obtained by dividing the sulfur content of the calcined coke by a factor of 0.90. Calculate uncalcined coke sulfur content on a 24-hour weighted average basis. Uncalcined coke sulfur content shall be used to determine the mass of sulfur entering the kiln.
- Uncalcined Coke:** Mass flow rate monitored by flow rate monitoring device hourly. Determine the three-hour averaged uncalcined coke mass flow rate. This value shall be used to determine the mass of sulfur entering and leaving the kiln.
- Which Months: All Year Statistical Basis: 3-hour block average
- Calcined Coke:** Mass flow rate monitored by calculations hourly. Determine the three-hour averaged calcined coke mass flow rate by using the uncalcined coke mass flow rate and assuming an uncalcined coke to calcined coke conversion rate of 70%. The calcined coke mass flow rate shall be used to determine the mass of sulfur exiting the kiln.
- Which Months: All Year Statistical Basis: 3-hour block average
- Mass of Sulfur Entering Kiln: Determine the amount of sulfur entering the kiln using the following equation:  
**Uncalcined coke mass flow rate (tons/hr) \* Uncalcined coke sulfur content \* (1 - Moisture %)\* 2,000lbs/ton**
- Mass of sulfur entering the kiln shall be used to determine sulfur dioxide emissions from the kiln.
- Mass of Sulfur Dioxide (SO<sub>2</sub>): Assuming that all unrecovred sulfur is converted to sulfur dioxide in the kiln, determine hourly sulfur dioxide emissions (in lbs/hr) using the following equation:  
**(Mass of sulfur entering the kiln - Mass of sulfur leaving the kiln) \* (Molecular Weight of SO<sub>2</sub> / Molecular Weight of S).**

For reference:

Molecular weight of SO<sub>2</sub> = 64.1 lb/lbmol  
 Molecular weight of S = 32.065 lb/lbmol.

The hourly SO<sub>2</sub> emissions shall be used to generate a 3-hour average SO<sub>2</sub> emission rate (in lb/hr). This 3-hour SO<sub>2</sub> emission rate shall be used to calculate the 3-hour average SO<sub>2</sub> concentration (in ppmv).

**SPECIFIC REQUIREMENTS**

AI ID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant  
**Activity Number:** PER20090002  
**Permit Number:** 0840-00021-V2  
**Air - Title V Regular Permit Renewal**

**EQT 0006 3 - No. 3 Kiln - Coke Calciner**

75 [LAC 33:III.1511.C.3]

SO2 Concentration: Determine the 3-hour average SO2 concentration (in ppmv) by using the following equation:

$$\text{SO2 Concentration} = \text{Mass of SO2 (lb/hr)} \cdot \text{CF}$$

where,  
 Mass of SO2 = 3-hour average SO2 emissions  
 Conversion Factor (CF) =  $(V_s \cdot 1,000,000) / (Q_s \cdot MW)$

where,

$V_s$  = specific volume for air (358.3 scf/lb-mole)  
 $Q_s$  = Standard flow rate for air =  $Q_a \cdot (T_s/T_a) \cdot (P_s/P_a)$   
 $Q_a$  = Actual flow rate average during 2009 Stack Test (267,064 acf/min.)  
 $T_s$  = Standard Temperature (528 deg R)  
 $T_a$  = Actual Temperature during 2009 Stack Test (1828 deg R)  
 $P_a$  = Actual Pressure (1 atm)  
 $P_s$  = Standard Pressure (1 atm)  
 $MW$  = Molecular weight of SO2 (64.1 lb/lb mole)

76 [LAC 33:III.1511.C.3]

77 [LAC 33:III.1513.B.3]

78 [LAC 33:III.1513.E]

79 [LAC 33:III.1513.E]

80 [LAC 33:III.1513.E]

81 [LAC 33:III.507.II.1.a]

82 [LAC 33:III.507.II.1.a]

83 [LAC 33:III.507.H.1.a]

**Moisture Content:** Determine moisture content on a weighted basis of uncalcined coke based on coke receipts. Moisture content shall be used to determine the mass of sulfur entering the kiln.  
 Equipment/operational data recordkeeping by electronic or hard copy hourly. Record all data used to calculate sulfur dioxide emissions from the kiln.  
 Submit quarterly reports of three-hour excess emissions and reports of emergency conditions in accordance with LAC 33:III.1.Chapter 39.  
 Make all compliance data available to a representative of DEQ or the U.S. EPA on request.  
 Submit report: Due annually, by the 31st of March, in accordance with LAC 33:III.918. Report data required to demonstrate compliance with the provisions of LAC 33:III Chapter 15.  
 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services.  
 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing.  
 Opacity monitored by visual inspection/determination daily using a trained observer. Observer shall maintain certification by completing the semi-annual qualification procedure specified in Method 9.  
 Which Months: All Year Statistical Basis: Single Readings

**SPECIFIC REQUIREMENTS**

AI ID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant

Activity Number: PER20090002

Permit Number: 0840-00021-V2

Air - Title V Regular Permit Renewal

**EQT 0006 3 - No. 3 Kiln - Coke Calciner**

84 [LAC 33:III.507.H.1.a]

Conduct a performance/emissions test: Due within five years, plus or minus 6 months, of when the previous performance test was performed. Since the four kilns listed in this permit are identical in nature, any two out of the four kilns can be tested to demonstrate compliance provided that the next five year performance test includes the two untested kilns. The stack test's purpose is to demonstrate compliance per 40 CFR 70.6(a)(3)(i)(B), with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 1 - Sample and velocity traverses for stationary sources, Method 2 - Determination of stack gas velocity and volumetric flow rate, Method 3 - Molecular Weight, Method 4 - Moisture content, Method 5F - Determination of nonsulfate particulate matter emissions from stationary sources, Method 6C - Determination of sulfur dioxide emissions from stationary sources, Method 7E - Determination of nitrogen oxides emissions from stationary sources, Method 10 - Determination of carbon monoxide emissions from stationary sources, Method 26A - Determination of hydrogen halide and halogen emissions from stationary sources isokinetic method, and Method 29 - Metals emissions from stationary sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. Opacity recordkeeping by manual logging upon measurement. If opacity by casual observation is less than 5%, the observer shall record no visible emissions. If opacity by casual observation is greater than 5% and less than 15%, the observer shall record the opacity of the worst stack. If opacity by casual observation is greater than 15%, the observer shall perform a full 40 CFR 60, Appendix A, Method 9 on the stack having the highest opacity. Keep records of opacity readings on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be no additional controls.

**EQT 0007 4 - No. 4 Kiln - Coke Calciner**

88 [LAC 33:III.1101.B]

89 [LAC 33:III.1111.B]

90 [LAC 33:III.1111.C]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, equipment changes, or ash removal, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: None specified Total suspended particulate <= 42.50 lb/hr. The rate of emission shall be the total of all emission points from the source. Which Months: All Year Statistical Basis: None specified Opacity <= 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: Six-minute average Sulfur dioxide <= 2000 ppm at standard conditions (1 atm, 68 degrees F).

Which Months: All Year Statistical Basis: Three-hour average

Determine compliance with the appropriate emission limitation in LAC 33:III.1503.A through 1503.C using the methods listed in LAC 33:III.1503.D, Table 4 or any such equivalent method as may be approved by DEQ. Use these methods for initial compliance determinations and for any additional compliance determinations as requested by DEQ.

**SPECIFIC REQUIREMENTS**

AI ID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant  
 Activity Number: PER20090002  
 Permit Number: 0840-00021-V2  
 Air - Title V Regular Permit Renewal

**EQT 0007 4 - No. 4 Kiln - Coke Calciner**

93 [LAC 33:II.151.C.3]

SO<sub>2</sub> Concentration: Determine the 3-hour average SO<sub>2</sub> concentration (in ppmv) by using the following equation:

$$\text{SO}_2 \text{ Concentration} = \text{Mass of SO}_2 (\text{lb/hr}) * \text{CF}$$

where,

Mass of SO<sub>2</sub> = 3-hour average SO<sub>2</sub> emissions

$$\text{Conversion Factor (CF)} = (\text{V}_s * 1,000,000) / (\text{Q}_s * \text{MW})$$

where,

 $\text{V}_s$  = specific volume for air (358.3 scf/lb-mole) $\text{Q}_s$  = Standard flow rate for air =  $\text{Q}_a * (\text{T}_s/\text{T}_a) * (\text{P}_a/\text{P}_s)$  $\text{Q}_a$  = Actual flow rate average during 2009 Stack Test (267,064 acf/min) $\text{T}_s$  = Standard Temperature (528 deg R) $\text{T}_a$  = Actual Temperature during 2009 Stack Test (1828 deg R) $\text{P}_a$  = Actual Pressure (1 atm) $\text{P}_s$  = Standard Pressure (1 atm)MW = Molecular weight of SO<sub>2</sub> (64.1 lb/lb mole)

94 [LAC 33:II.151.C.3]

Mass of Sulfur Leaving the Kiln: Determine the amount of sulfur leaving the kiln using the following equation:

$$\text{Uncalcined coke mass flow rate (tons/hr)} * \text{Coke conversion rate (70\%)} * \text{Calcined coke sulfur content} * 2,000 \text{lbs/on}$$

95 [LAC 33:II.151.C.3]

The mass of sulfur leaving the kiln shall be used to determine sulfur dioxide emissions from the kiln.  
 Mass of Sulfur Dioxide (SO<sub>2</sub>): Assuming that all unrecovered sulfur is converted to sulfur dioxide in the kiln, determine hourly sulfur dioxide emissions (in lbs/hr) using the following equation:

$$(\text{Mass of sulfur entering the kiln} - \text{Mass of sulfur leaving the kiln}) * (\text{Molecular Weight of SO}_2 / \text{Molecular Weight of S}).$$

For reference:

Molecular weight of SO<sub>2</sub> = 64.1 lb/lbmol

Molecular weight of S = 32.065 lb/lbmol.

The hourly SO<sub>2</sub> emissions shall be used to generate a 3-hour average SO<sub>2</sub> emission rate (in lb/hr). This 3-hour SO<sub>2</sub> emission rate shall be used to calculate the 3-hour average SO<sub>2</sub> concentration (in ppmv).  
 Uncalcined Coke: Mass flow rate monitored by flow rate monitoring device hourly. Determine the three-hour averaged uncalcined coke mass flow rate. This value shall be used to determine the mass of sulfur entering and leaving the kiln.  
 Which Months: All Year Statistical Basis: 3-hour block average

**SPECIFIC REQUIREMENTS**

AI ID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant  
**Activity Number:** PER20080002  
**Permit Number:** 0840-00021-V2  
**Air - Title V Regular Permit Renewal**

**EQT 0007 4 - No. 4 Klin - Coke Calciner**

**97 [LAC 33:III.1511.C.3]** **Calcined Coke:** Mass flow rate monitored by calculations hourly. Determine the three-hour averaged calcined coke mass flow rate by using the uncalcined coke mass flow rate and assuming an uncalcined coke to calcined coke conversion rate of 70%. The calcined coke mass flow rate shall be used to determine the mass of sulfur exiting the kiln.

Which Months: All Year Statistical Basis: 3-hour block average

**98 [LAC 33:III.1511.C.3]** **Sulfur Content:** Collect samples of the calcined coke at least twice per day. Determine the sulfur content of each sample. Calculate calcined coke sulfur content on a 24-hour weighted average basis. Calcined coke sulfur content shall be used to determine the mass of sulfur leaving the kiln.

Sulfur content of the uncalcined coke shall be obtained by dividing the sulfur content of the calcined coke by a factor of 0.90. Calculate uncalcined coke sulfur content on a 24-hour weighted average basis. Uncalcined coke sulfur content shall be used to determine the mass of sulfur entering the kiln.

**99 [LAC 33:III.1511.C.3]** **Mass of Sulfur Entering Klin:** Determine the amount of sulfur entering the kiln using the following equation:

$$\text{Uncalcined coke mass flow rate (tons/hr)} * \text{Uncalcined coke sulfur content} * (1 - \text{Moisture \%}) * 2,000\text{lbs/ton}$$

**Mass of sulfur entering the kiln** shall be used to determine sulfur dioxide emissions from the kiln.

**Moisture Content:** Determine moisture content on a weighted basis of uncalcined coke based on coke receipts. Moisture content shall be used to determine the mass of sulfur entering the kiln.

**Equipment/Operational data recordkeeping** by electronic or hard copy hourly. Record all data used to calculate sulfur dioxide emissions from the kiln.

**Make all compliance data available to a representative of DEQ or the U.S. EPA on request!**

**Submit quarterly reports of three-hour excess emissions and reports of emergency conditions in accordance with LAC 33:33:1.Chapter 39.**

**Submit report:** Due annually, by the 31st of March, in accordance with LAC 33:III.9.8. Report data required to demonstrate compliance with the provisions of LAC 33:II.Chapter 15.

**Opacity monitored by visual inspection/determination daily using a trained observer.** Observer shall maintain certification by completing the semi-annual qualification procedure specified in Method 9.  
 Which Months: All Year Statistical Basis: Single Readings

**100 [LAC 33:III.1511.C.3]**

**101 [LAC 33:III.1513.B.3]**

**102 [LAC 33:III.1513.E]**

**103 [LAC 33:III.1513.E]**

**104 [LAC 33:III.1513.E]**

**105 [LAC 33:III.507.H.1.a]**

**SPECIFIC REQUIREMENTS**

AI ID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant  
 Activity Number: PER20090002  
 Permit Number: 0840-00021-V2  
 Air - Title V Regular Permit Renewal

**EQT 0007 4 - No. 4 Kiln - Coke Calciner**

106 [LAC 33:II.507.H.1.a]

Conduct a performance/emissions test: Due within five years, plus or minus 6 months, of when the previous performance test was performed. Since the four kilns listed in this permit are identical in nature, any two out of the four kilns can be tested to demonstrate compliance provided that the next five year performance test includes the two untested kilns. The stack test's purpose is to demonstrate compliance per 40 CFR 70.6(a)(3)(i)(B), with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 1 - Sample and velocity traverses for stationary sources, Method 2 - Determination of stack gas velocity and volumetric flow rate, Method 3 - Molecular Weight, Method 4 - Moisture content, Method 5F - Determination of nonsulfate particulate matter emissions from stationary sources, Method 6C - Determination of sulfur dioxide emissions from stationary sources, Method 7E - Determination of nitrogen oxides emissions from stationary sources, Method 10 - Determination of carbon monoxide emissions from stationary sources, Method 26A - Determination of hydrogen halide and halogen emissions from stationary sources isokinetic method, and Method 29 - Metals emissions from stationary sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:II.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. Opacity recordkeeping by manual logging upon measurement. If opacity by casual observation is less than 5%, the observer shall record no visible emissions. If opacity by casual observation is greater than 5% and less than 15%, the observer shall record the opacity of the worst stack. If opacity by casual observation is greater than 15%, the observer shall perform a full 40 CFR 60, Appendix A, Method 9 on the stack having the highest opacity. Keep records of opacity readings on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing.

Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services.

Include emissions of all toxic air pollutants listed in LAC 33:II.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:II.5105.B.  
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be no additional controls.

**EQT 0013 16 - Cooler - Kilns 1, 2, 3, and 4**

Total suspended particulate <= 52.09 lb/hr. The rate of emission shall be the total of all emission points from the source.  
 Which Months: All Year Statistical Basis: None specified

**EQT 0014 19 - Unleaded Gasoline Storage Tank**

112 [LAC 33:II.1311.B]  
 113 [LAC 33:II.2103.A]  
 114 [LAC 33:II.2103.H.3-a-e]  
 115 [LAC 33:II.2103.I]

Equip with a submerged fill pipe.  
 Determine VOC maximum true vapor pressure using the methods in LAC 33:II.2103.H.3-a-e.  
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:II.2103.I.1 - 7, as applicable.

**SPECIFIC REQUIREMENTS**

AJ ID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant  
 Activity Number: PER20090002  
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 Air - Title V Regular Permit Renewal

**EQT 0032 48 - Natural Gas Kiln Auxiliary Engine**

- 116 [40 CFR 60.4233(d)]  
 117 [40 CFR 60.4234]  
 118 [40 CFR 60.4243(b)(1)]  
 119 [40 CFR 60.4243(c)]  
 120 [40 CFR 60.4243(g)]  
 121 [40 CFR 60.4245(a)]  
 122 [40 CFR 60.4245(d)]  
 123 [40 CFR 63.6590(c)]  
 124 [LAC 33:II.1101.B]  
 125 [LAC 33:II.1311.C]
- Comply with the emission standards for field testing in 40 CFR 1048.101(c). Subpart JJJ. [40 CFR 60.4233(d)] Operate and maintain stationary SI ICE to achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. Subpart JJJJ.  
 Ensure engine is certified according to procedures specified in 40 CFR 60 Subpart JJJJ, for the same model year. Demonstrate compliance according to one of the methods specified in 40 CFR 60.4243(a). Subpart JJJJ. [40 CFR 60.4243(b)(1)] Operate using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations. Keep records of such use. If propane is used for more than 100 hours per year and the engine is not certified to the emission standards when using propane, conduct a performance test to demonstrate compliance with the emission standards of 40 CFR 60.4233. Subpart JJJJ. [40 CFR 60.4243(e)] Air-to-fuel ratio controller: Maintain and operate appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times. Subpart JJJ. [40 CFR 60.4243(g)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information in 40 CFR 60.4245(a)(1) through (a)(4). Subpart JJJ. [40 CFR 60.4245(e)] Submit performance test results as applicable: Due within 60 days after each test conducted according to 40 CFR 60.4244 has been completed. Subpart JJJJ. [40 CFR 60.4245(d)] Meet the requirements of 40 CFR 60 Subpart JJJ for spark ignition engines. Subpart ZZZZ. [40 CFR 63.6590(c)] Opacity <= 20 percent, except during equipment changes, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: None specified Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: Six-minute average

**FUG 0001 17 - Coke Unloading and Fugitives**

- 126 [LAC 33:II.1305]  
 127 [LAC 33:II.1311.B]  
 128 [LAC 33:II.1311.C]
- Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:II.1305.1-7.  
 Total suspended particulate <= 53.87 lb/hr. The rate of emission shall be the total of all emission points from the source. Which Months: All Year Statistical Basis: None specified Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: Six-minute average

**FUG 0002 18 - Parking Lot and Paved Road Fugitives**

- 129 [LAC 33:II.1305]
- Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:II.1305.1-7.

**SPECIFIC REQUIREMENTS**

AI ID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant  
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**FUG 0003 22 - Cooler Area Coke Transfer and Fugitives**

- 130 {LAC 33:III.1305} Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7.  
 Total suspended particulate <= 52.09 lb/hr. The rate of emission shall be the total of all emission points from the source.  
 Which Months: All Year Statistical Basis: None specified  
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
 Which Months: All Year Statistical Basis: Six-minute average

**FUG 0004 28 - Coke Storage and Handling Fugitives**

- 133 {LAC 33:III.1305} Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7.  
 Total suspended particulate <= 53.87 lb/hr. The rate of emission shall be the total of all emission points from the source.  
 Which Months: All Year Statistical Basis: None specified  
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
 Which Months: All Year Statistical Basis: Six-minute average

**UNF 0001 Entire Facility - Baton Rouge Calcined Coke Plant**

- All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.  
 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in Table 8 of 40 CFR 63 Subpart ZZZZ.  
 Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.  
 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.  
 Outdoor burning of waste material or other combustible material is prohibited.  
 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.  
 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.  
 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.  
 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard

**SPECIFIC REQUIREMENTS**

AI ID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant  
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**UNF 0001 Entire Facility - Baton Rouge Calcined Coke Plant**

- 145 [LAC 33:III.5|05.A.2] Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109.B.  
 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
- 146 [LAC 33:III.5|05.A.3] Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A.
- 147 [LAC 33:III.5|05.A.4] Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official.
- 148 [LAC 33:III.5|07.A.2] Submit Annual Emissions Report: Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
- 149 [LAC 33:III.5|07.A.] Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 923-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
- 150 [LAC 33:III.5|07.B.1] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923.
- 151 [LAC 33:III.5|07.B.2] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931.
- 152 [LAC 33:III.5|07.B.3] Submit notification in the manner provided in LAC 33:III.3923.
- 153 [LAC 33:III.5|07.B.4] Submit written report: Due by certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.a.i through B.4.a.viii.
- 154 [LAC 33:III.5|07.B.5] Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
- 155 [LAC 33:III.5|09.C] Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by DEQ.

**SPECIFIC REQUIREMENTS**

AI ID: 29884 - Oxbow Calcining LLC - Baton Rouge Calcined Coke Plant  
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**UNF 0001 Entire Facility - Baton Rouge Calcined Coke Plant**

- 156 [LAC 33:III.535] Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537.  
 [LAC 33:III.535, LAC 33:III.537]  
 Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 5 when the administrative authority declares an Air Pollution Alert.
- 157 [LAC 33:III.5609.A.1.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 6 when the administrative authority declares an Air Pollution Warning.
- 158 [LAC 33:III.5609.A.2.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 7 when the administrative authority declares an Air Pollution Emergency.
- 159 [LAC 33:III.5609.A.3.b] Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency.  
 Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611. Tables 5, 6, and 7.  
 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment.  
 Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.
- 160 [LAC 33:III.5609.A]
- 161 [LAC 33:III.919.D]